

# Zecheng Li

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Seeking a Software Engineer Internship

## EDUCATION

**University of Southern California, Los Angeles, CA**

*Aug. 2021 - May. 2023*

*M.S. in Computer Science*

**University of San Francisco, San Francisco, CA**

*Aug. 2016 - Dec. 2020*

*B.S. in Computer Science*

Major GPA: 3.92

## TECHNICAL SKILLS

**Programming Languages:** Java, Swift, Javascript, C, Objective-C, Python, C++

**Database:** MySQL, MongoDB, PostgreSQs, SQLite

**Framework:** UIKit, RXSwift, Spring MVC, Spring AOP, Spring Boot, Spring Data JPA, Spring Security, Mybatis, Angular, Jasmine, React.js, Redux, RxJs, Apache Beam, MapReduce, Node JS, Mongoose, Flask, Django, ElasticSearch, Redis

**Other:** Heroku, AWS Amplify, Docker, Linux, Postman, JUnit, JMeter, Maven, Amazon EC2

## PROFESSIONAL EXPERIENCE

**FunPins. Inc, Los Angeles, CA**

*Jun. 2021 - Aug. 2021*

*Mobile Developer Intern (IOS)*

- Collaborated with product teams in testing their services, included writing **Automation Testing** scripts, analyzing user **Growth Metrics**, and composing **Product Requirements Document**
- Improved user profile UI from Storyboards and Interface Builder to **AutoLayout** in code with **Snapkit**, which enabled easy UI maintenance and reduced the code compilation time by 40%
- Refactored the legacy code with **MVVM(RxSwift)** to build channels of communication between architecture layers and used **RxFlow** to manage navigation state transition and promote reusability of **UIViewController**s
- Configured the **Travis CI** file to automate parallel batch tests and monitor the software lifecycle to improve code quality
- Utilized **Time Profilers** to monitor app memory and CPU usage to reduce bottlenecks of users feed components by 25% and inspected **Memory Graph** and **Debugger** to identify retain cycles and prevent memory leaks

**Oigetit Fake News Filter, Sunnyvale, CA**

*Feb. 2021 - Jun. 2021*

*Web Developer Intern*

- Adopted **Agile** Development methodologies including **TDD** and **Scrum** to get faster product releases before the scheduled deadline and lower the development costs
- Conducted behavior analytics in the news feed by applying **Google User Activity API** to increase retention rate by 8%
- Designed cloud infrastructure with **EC2** including Application Load Balancer and Auto Scaling
- Created custom news event streams using **RxJS** Observable library to deal with asynchronous data calls and callbacks
- Performed A/B Testing with **Firebase** to deliver customized news and video player interface on the fly and gained 20% daily active users over 4 months
- Gauged Response Time and Throughput by using **JMeter** to simulate a heavy load test of 20k+ concurrent users and optimize the load time of the site from 4.2 seconds to 2.8 seconds

**University of San Francisco, San Francisco, CA**

*Aug. 2019 - Dec. 2019*

*Teaching Assistant of Computer Architecture*

- Held weekly office hours for 50+ students to provide help on course concepts, labs, and homework
- Assisted the professor to write test cases for each class project

## COURSE PROJECTS

**Trade Online Marketplace and Clothing Reseller Website**

*Aug. 2021 - Dec. 2021*

- Deployed **Dockerfiles** to containerize **SpringBoot** Microservices using **Docker Networking** to improve the scalability
- Conducted **GC tuning** and analyzed dump file to obtain optimal **JVM** performance
- Designed the database and server-side caching with **MongoDB** and **Redis cache** to reduce memory access time by 25%
- Utilized **Swagger-Core Annotations** to automatically generate RESTful API documents and alleviated the team workload
- Integrated various components & steps in the cloud (storage, data cleanup, data transformation, data analytics) to develop real-time shopping batch data pipelines with **Apache Beam Java SDK** and **MapReduce** framework